



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Eco Window Systems, LLC
9114 NW 106 Street
Medley, FL 33178

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Eco-Guard 100" Aluminum Single Hung Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. W13-08, titled "Eco-Guard Series-100 Alum. S.H. Wdw. (S.M.I.)", sheets 1 through 5 of 5, dated 03/15/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
8/9/13

NOA No. 13-0418.03
Expiration Date: August 15, 2018
Approval Date: August 15, 2013
Page 1

Eco Window Systems, LLC.


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W13-08**, titled "Eco-Guard Series-100 Alum. S.H. Wdw. (S.M.I.)", sheets 1 through 5 of 5, dated 03/15/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a 37" wide x 63" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-10-3139**, dated 11/29/10, signed and sealed by Candido F. Font, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of a 106-1/2" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-08-2166A**, dated 12/15/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA#09-0224.07)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a 106-1/2" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-08-2166C**, dated 12/ 15, 2009, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA#09-0224.07)
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of a 53-1/4" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-08-2168**, dated 12/15/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA#09-0224.07)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0418.03
Expiration Date: August 15, 2018
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a 53-1/4" wide x 76-1/4" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-08-2170**, dated 12/15/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA#09-0224.07)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 01/27/12 and 07/30/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated March 15, 2013, signed and sealed by Javad Ahmad, P.E.
2. Proposal No. **10-0641** issued by Product Control, dated September 09, 2010 and revised on September 23, 2010, signed by Manuel Perez, P.E.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0418.03
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| DESIGN LOAD CAPACITY - PSF | | | | | | | |
|----------------------------|---------|-----------------|---------|--------------------|---------|---------|---------|
| FLANGE DIMS. | | 1/4" ITW TAPCON | | 1/4" ELCO ULTRACON | | #14 SMS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 19-1/8" | 26" | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 26-1/2" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 30" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 37" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 19-1/8" | 38-3/8" | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 26-1/2" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 30" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 37" | | 75.0 | 138.7 | 75.0 | 141.1 | 75.0 | 141.1 |
| 19-1/8" | 50-5/8" | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 26-1/2" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 30" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 37" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 19-1/8" | 63" | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 26-1/2" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 30" | | 75.0 | 141.1 | 75.0 | 141.1 | 75.0 | 141.1 |
| 37" | | 75.0 | 126.8 | 75.0 | 139.4 | 75.0 | 141.1 |

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

ECO-GUARD SERIES-100 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

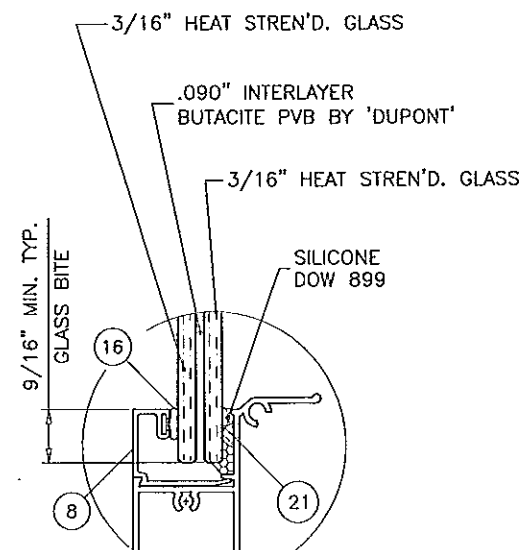
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

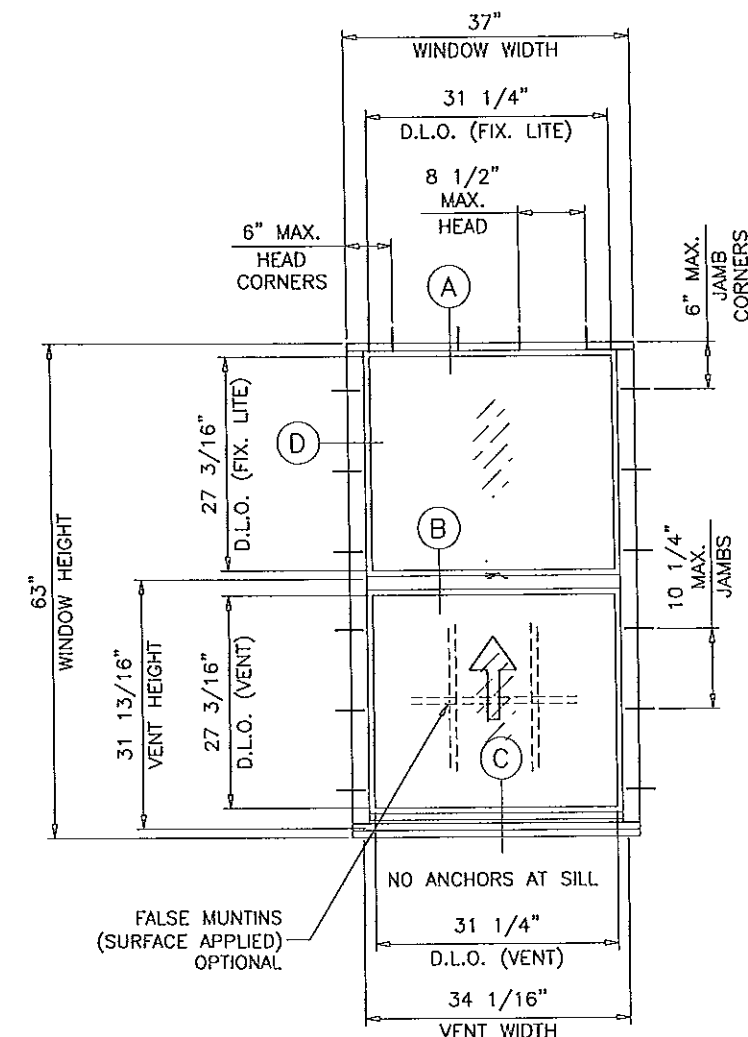
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.



GLAZING DETAIL
7/16" OVERALL LAM. GLASS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219



TYPICAL ELEVATION
TESTED UNIT

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

APR 11 2013

Approved as complying with the
Florida Building Code
Date: Aug. 15, 2013
NOA# 13-0418.03
Miami Dade Product Control

By: *Mamuel Perez*

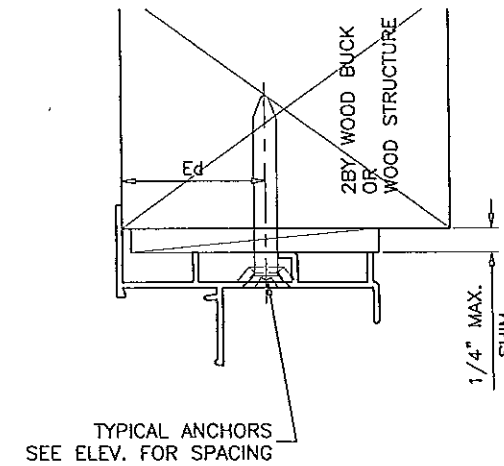
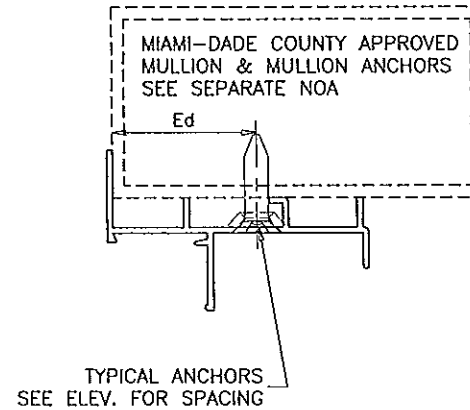
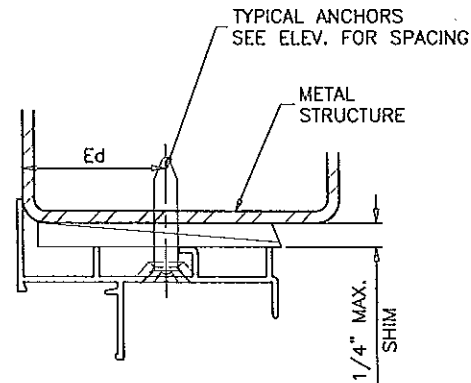
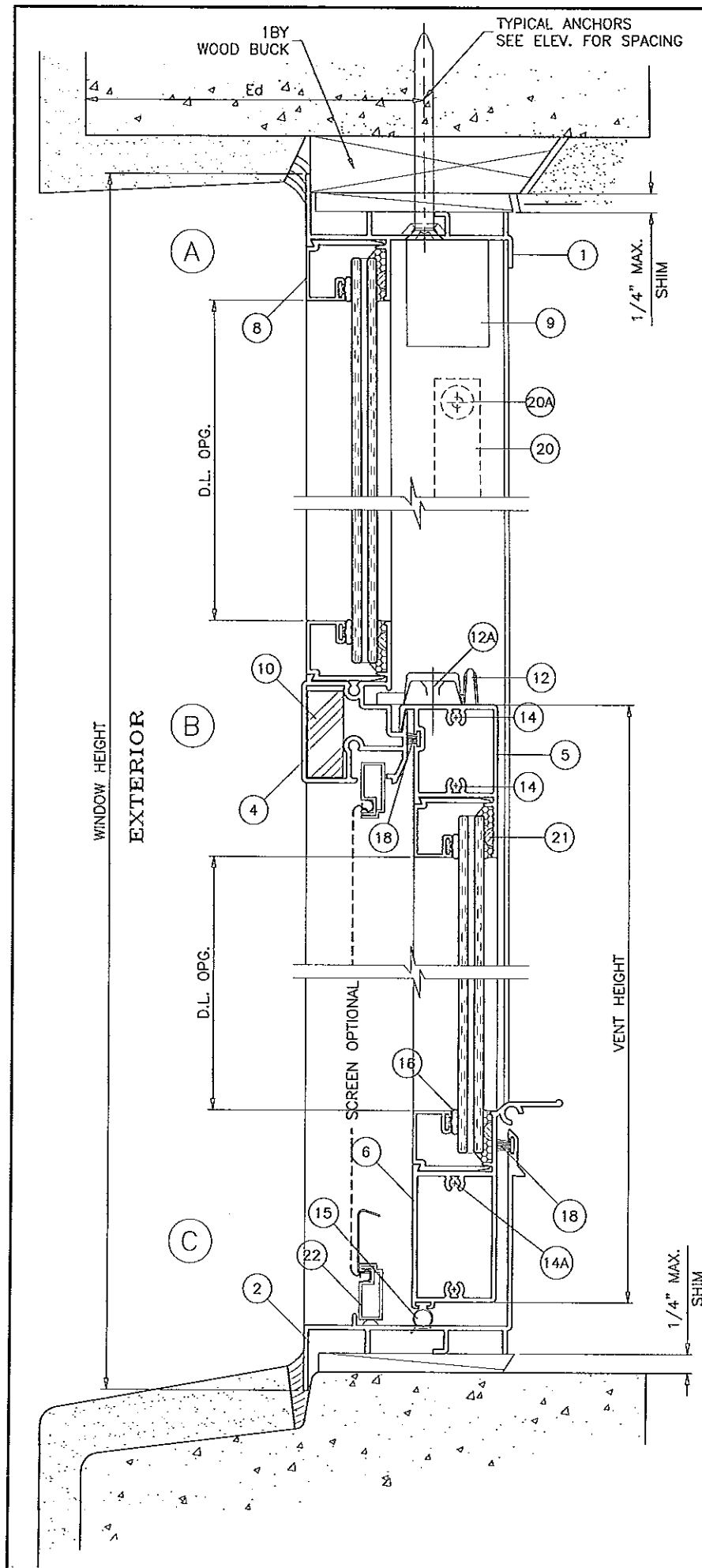
ECO-GUARD SERIES-100 ALUM S.H. WDW. (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

| revisions: | no | date | by | description |
|------------|----|------|----|-------------|
| | | | | |

date: 03-15-13
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W13-08
sheet 1 of 5

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W13-08ECO



WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WDW.
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES

STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
(NO SHIM SPACE)

Ed = ANCHOR EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
SCHNEE-MOREHEAD SM5504 SEAM SEALER.

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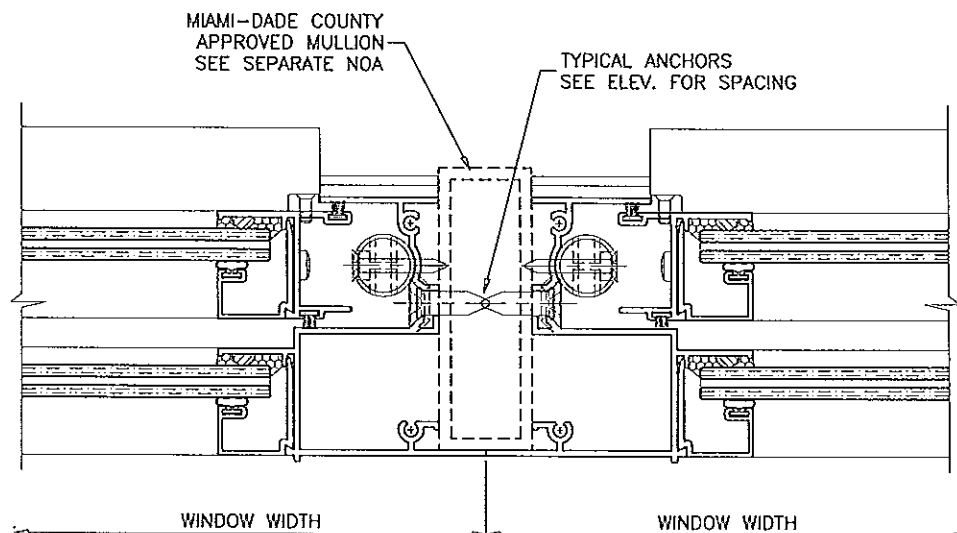
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Florida Building Code
Date Aug. 15, 2013
NOA# 13-0415.03
Miami Dade Product Control

By Mamuel Perez

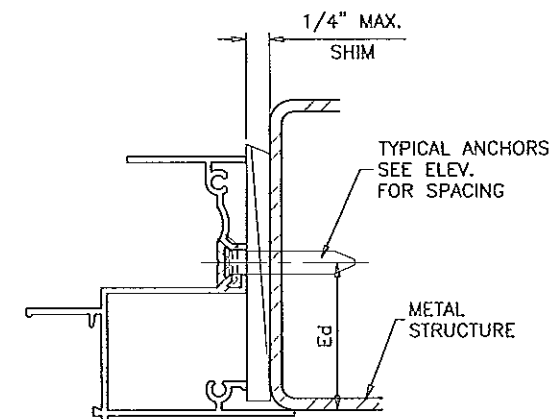
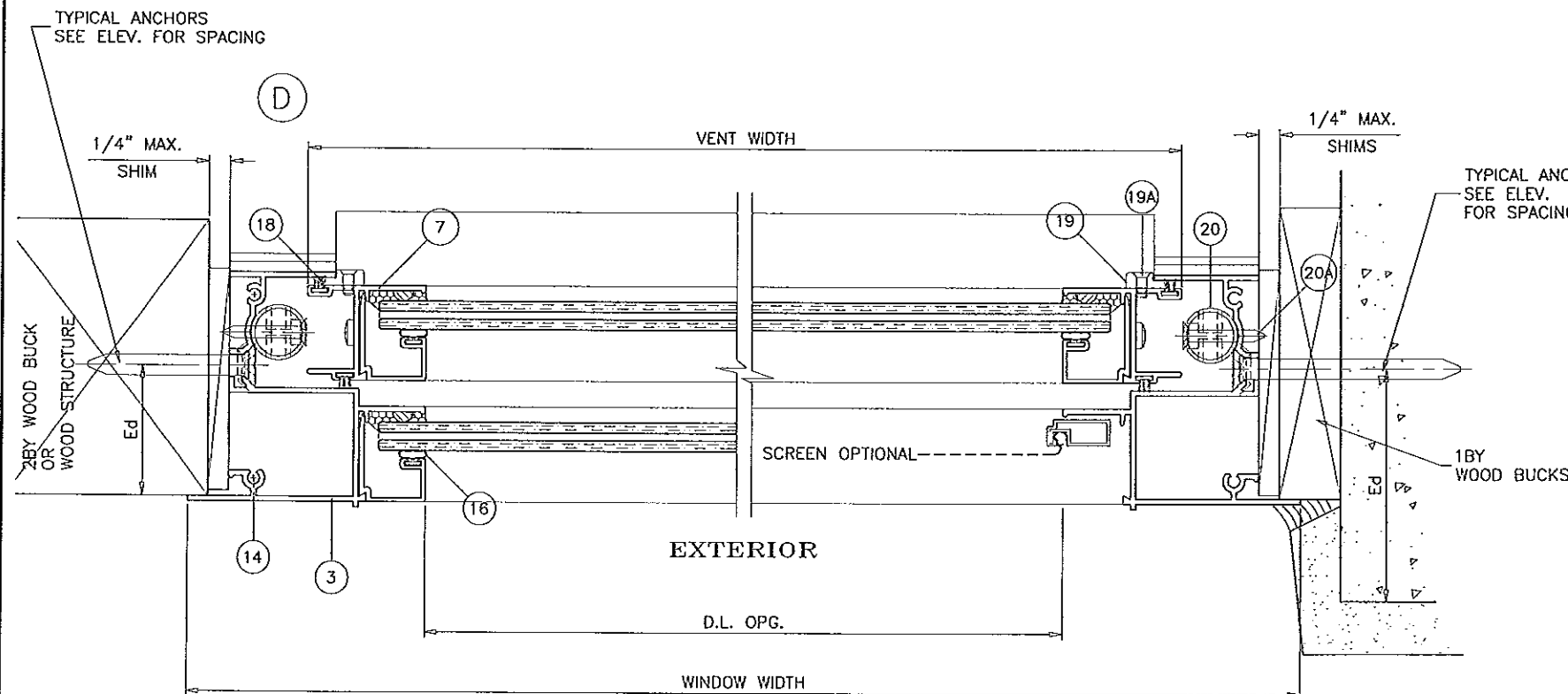
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
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| dr. by: | HAMID | chk. by: | |
| drawing no. | W13-08 | sheet | 2 of 5 |



| ITEM # | PART # | REQD. | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
|--------|-----------|------------|---------------------------------|------------|------------------------|
| 1 | FY101 | 1 | FRAME HEAD | 6063-T6 | - |
| 2 | FY115 | 1 | FRAME SILL | 6063-T6 | - |
| 3 | FY103 | 2 | FRAME JAMB | 6063-T6 | - |
| 4 | FY104 | 1 | FIXED MTG. RAIL | 6063-T6 | - |
| 5 | FY105 | 1 | VENT TOP RAIL | 6063-T6 | - |
| 6 | FY114 | 1 | VENT BOTTOM RAIL | 6063-T6 | - |
| 7 | FY107 | 2 | VENT SIDE RAIL | 6063-T6 | - |
| 8 | FY109 | AS REQD. | GLAZING BEAD (7/16" LAM. GLASS) | 6063-T6 | - |
| 9 | FY116 | 2/VENT | SASH STOP | 6063-T5 | - |
| 10 | - | 1 | FIX. MTG. RAIL REINFORCEMENT | 6063-T6 | - |
| 12 | SL203P | 1/VENT | SWEEP LATCH, CENTERED AT VENT | ZAMAK | SULLIVAN & ASSOC. |
| 12A | #8 X 5/8" | 2/ LATCH | LATCH INST. SCREWS | ST. STEEL | FH SMS |
| 14 | #8 X 1" | AS REQD. | FRAME & VENT ASSEMBLY SCREWS | CRS | PH SMS |
| 14A | #8 X 3/8" | 2/ VENT | BOTTOM RAIL ASSEMBLY SCREWS | CRS | PH SMS |
| 15 | E207 | AS REQD. | BOTTOM RAIL SEAL - SERIES 101 | NEOPRENE | ULTRAFAB |
| 16 | E203 | AS REQD. | GLAZING BEAD BULB | SANTOPRENE | ULTRAFAB |
| 18 | W23181 | AS REQD. | FIN SEAL W'STRIPPING | - | ULTRAFAB |
| 19 | FY117 | 4/ VENT | SASH GUIDE | CELCON | M&M PLASTICS |
| 19A | #6 X 3/8" | 1/ GUIDE | SASH GUIDE INST. SCREW | CRS | OH SMS TYPE B |
| 20 | F210 | 2/VENT | SASH BALANCE | - | SUPERBOOST BY BSI |
| 20A | #8 X 5/8" | 1/ BALANCE | BALANCE INST. SCREW | - | P FH SMS |
| 21 | - | AS REQD. | GLASS SPACER | SILICONE | FRANK LOWE |
| 22 | - | 1 | 5/16" BOX SCREEN | - | OPTIONAL |
| 23 | FY120 | - | FLUSH FRAME ADAPTER | 6063-T6 | OPTIONAL |



Engr: JAVVD AHMAD
CIVIL
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By Mamuel Jorg

ECO-GUARD SERIES-100 ALUM S.H. WDW. (S.M.I.)

ECO WINDOW SYSTEMS, LLC.

9114 N.W. 106 STREET

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TEL (305) 885-5299 FAX (305) 885-5902

revisions:

date: 03-15-13

scale: 1/2" = 1"

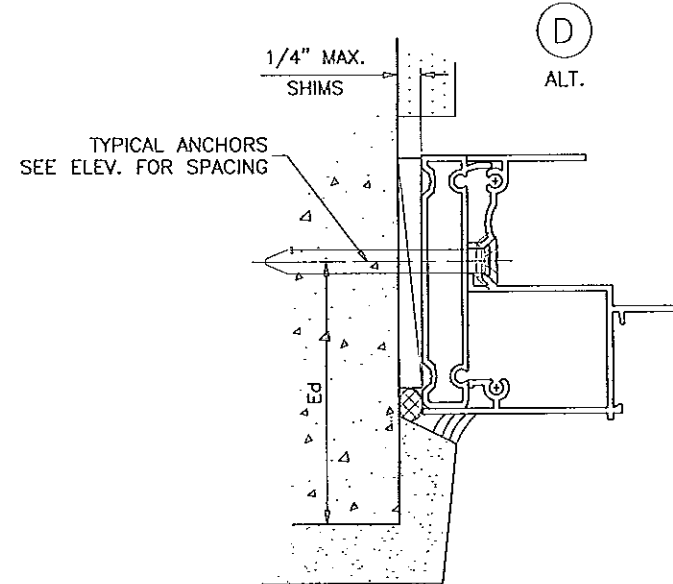
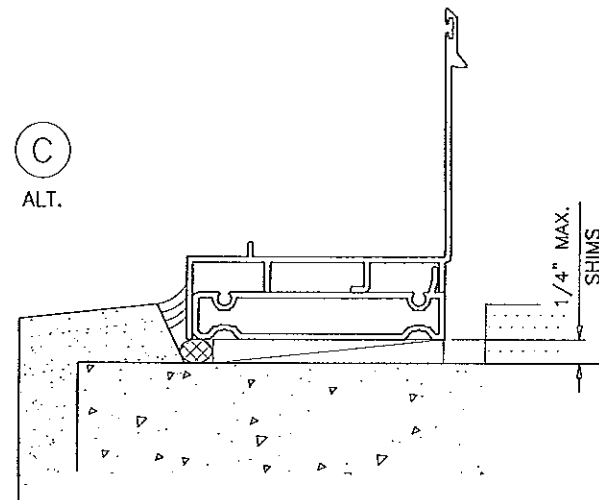
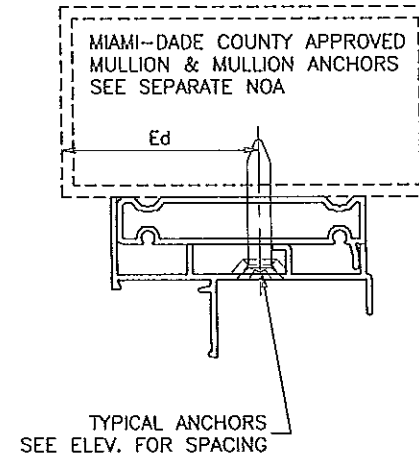
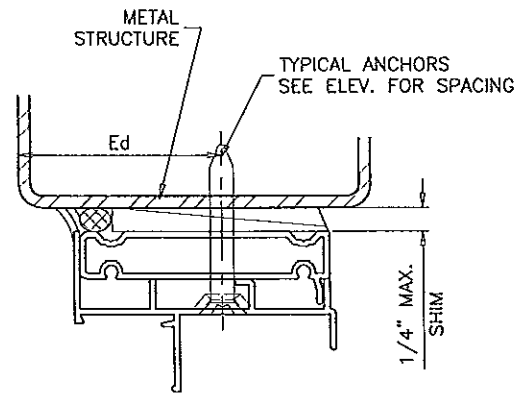
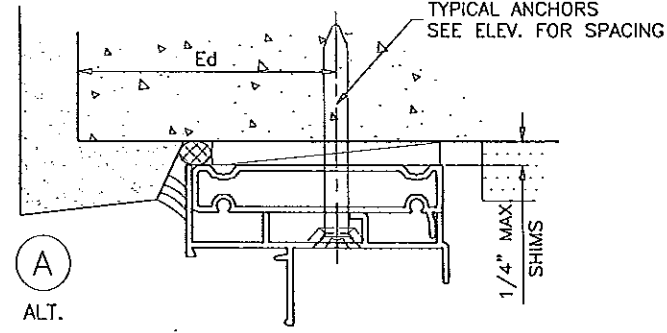
dr. by: HAMID

chk. by:

drawing no.
W13-08

sheet 3 of 5

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W13-08ECO



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

Approved as complying with the
Florida Building Code
Date: Aug. 15, 2013
NOA# 330418.03
Miami Dade Product Control

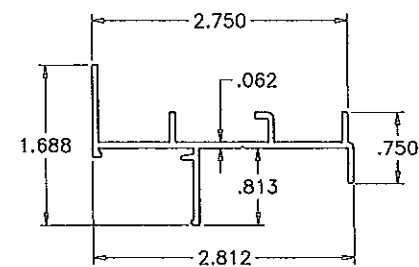
APR 11 2013

By: Manuel Ferrer

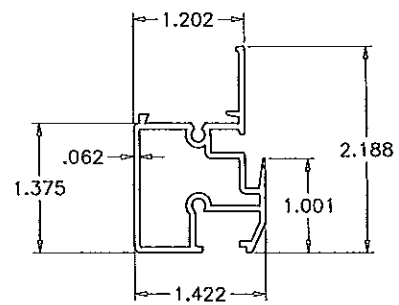
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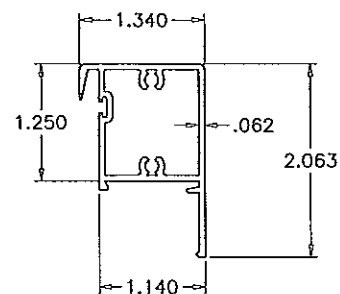
| revisions: | | no date by description | |
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| date: | 03-15-13 | scale: | 1/2" = 1" |
| dr. by: | HAMID | chk. by: | |
| drawing no. | W13-08 | sheet | 4 of 5 |



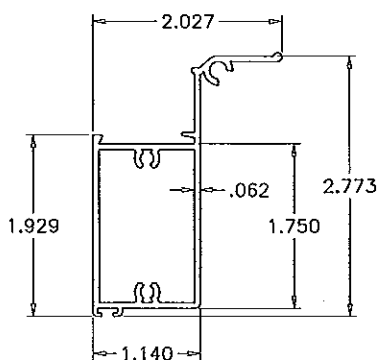
① FRAME HEAD



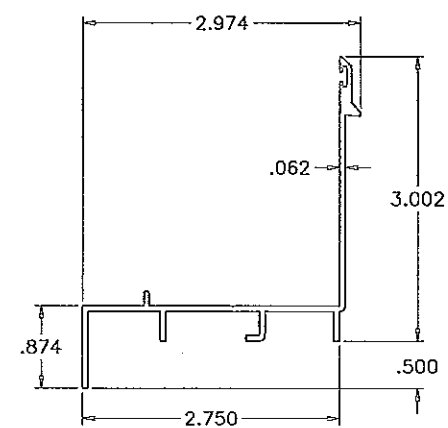
④ FIX. MEETING RAIL



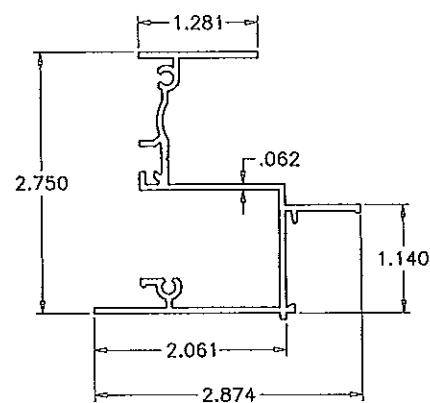
(5) VENT TOP RAIL



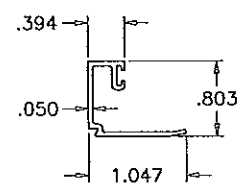
(6) VENT BOTTOM RAIL



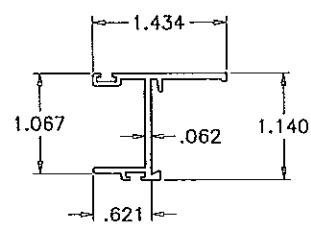
② FRAME SILL



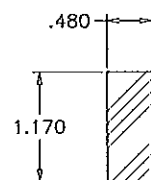
③ FRAME JAMB



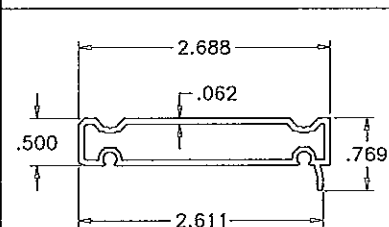
⑧ GLAZING BEAD



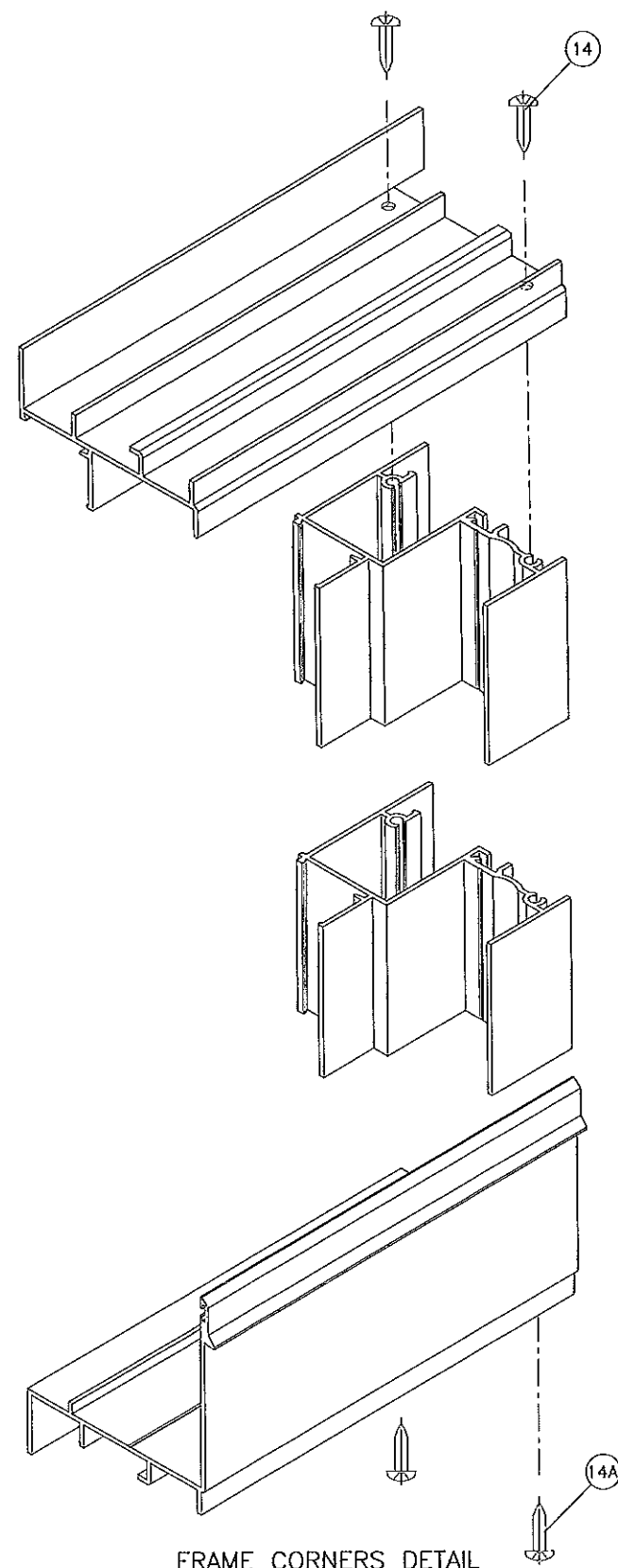
(7) VENT SIDE RAIL



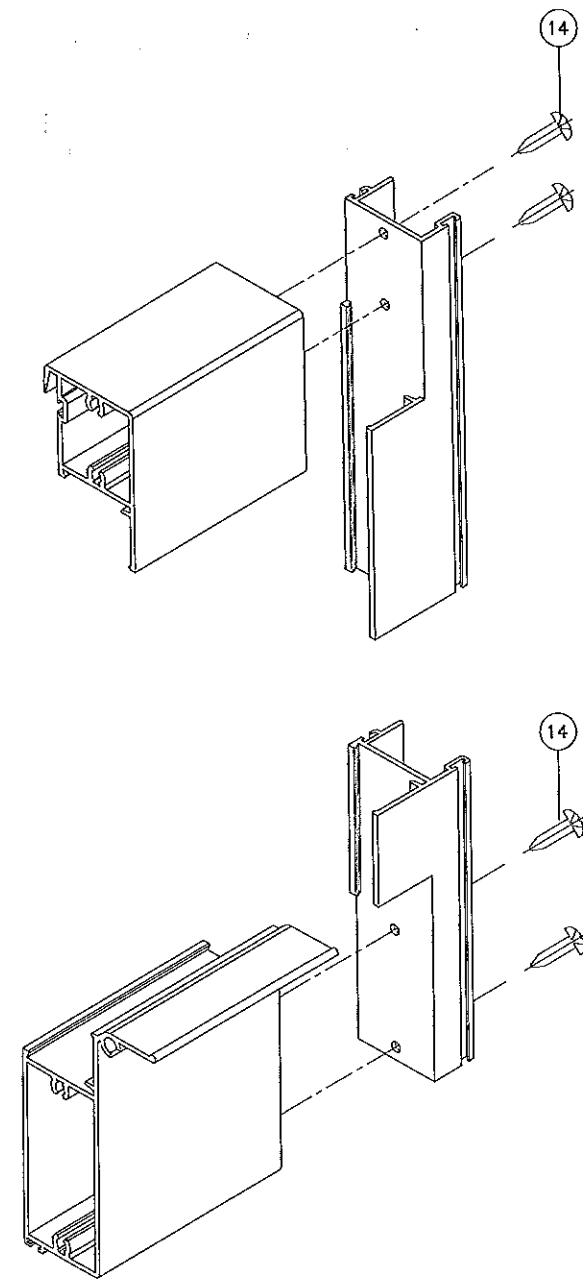
(10) MTG. RAIL REINFORCEMENT



(23) FLUSH FRAME ADAPTER



FRAME CORNERS DETAIL



VENT CORNER DETAIL

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

Approved as complying with the
Florida Building Code
Date Aug. 15, 2013
NOAH 13-0418.03
Minimal Trade Product Control

By Mammel

APR 11 2013

ECO-GUARD SERIES-100 ALUM S.H. WDW. (S.M.I.)

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| | | | |
|--------------------|----|------------|----------------|
| date: 03-15-13 | | revisions: | |
| scale: 1/2" = 1" | no | date | by description |
| dr. by: HAMID | | | |
| chk. by: | | | |
| drawing no. W13-08 | | | |
| sheet 5 of 5 | | | |